## (19) World Intellectual Property Organization

International Bureau



## 

(43) International Publication Date 28 April 2005 (28.04.2005)

PCT

## (10) International Publication Number WO 2005/038288 A1

(51) International Patent Classification7: 9/19, 9/44, 15/02

F16F 7/104,

(21) International Application Number:

PCT/FI2004/050147

(22) International Filing Date: 12 October 2004 (12.10.2004)

(25) Filing Language:

English

(26) Publication Language:

**English** 

(30) Priority Data: 20031531

20 October 2003 (20.10.2003)

(71) Applicant (for all designated States except US): WÄRT-SILÄ FINLAND OY [FI/FI]; Tarhaajantie 2, FI-65380 Vaasa (FI).

(72) Inventor; and

(75) Inventor/Applicant (for US only): MIKONAHO, Heikki [FI/FI]; Muntionkatu 12, FI-20740 Turku (FI).

(74) Agent: AWEK INDUSTRIAL PATENTS LTD OY; PL

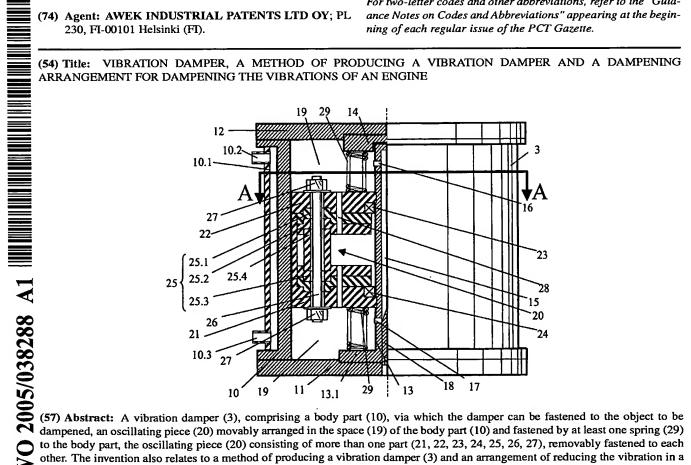
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the begin-



to the body part, the oscillating piece (20) consisting of more than one part (21, 22, 23, 24, 25, 26, 27), removably fastened to each other. The invention also relates to a method of producing a vibration damper (3) and an arrangement of reducing the vibration in a piston engine.